

In the claims:

Claims 1-79 (cancelled)

80. (new) A portable beverage preparation device comprising:

a heating/cooling element for heating/cooling a potable base liquid;

a heating/cooling chamber for housing said heating/cooling element and for heating/cooling said potable base liquid;

at least one pump unit configured for drawing and returning said potable base liquid from and to, respectively, a drink container, and

a controller for operating said at least one pump unit and said heating/cooling element when in communication with a power source,

wherein said heating/cooling element heats/cools said potable base liquid in said heating chamber and said at least one pump unit returns said potable base liquid in a heated/cooled state back into said drink container, and

wherein said drink container is provided with at least one sealed compartment comprising a beverage preparation element and having at least one beverage preparation stored therein in isolation from said potable base liquid.

81. (new) The portable beverage preparation device of claim 80 wherein said controller continues to cause water to flow in contact with a surface of said heating/cooling element in a closed cycle until the desired temperature of said potable base liquid is reached.

82. (new) The portable beverage preparation device of claim 81 wherein said potable base liquid is made to flow on one face of said heating/cooling element for heating, and on another face for cooling.

83. (new) The portable beverage preparation device of claim 81 wherein said potable base liquid is made to flow on the same face of said heating/cooling element, either for cooling or heating purpose, electrically switching the polarity of said heating/cooling element thus switching said beverage preparation device from a heating mode to a cooling mode and vice-versa.

84. (new) The portable beverage preparation device of claim 80 wherein said drink container is provided with at least one sealed compartment isolated from said drink container at the common surface between said drink container and said at least one sealed compartment, said isolation being provided by at least two welded rings sufficiently spaced apart to prevent said potable base liquid from seeping into said beverage preparation element.

85. (new) The portable beverage preparation device of claim 80 wherein said drink container comprises a cup.

86. (new) The portable beverage preparation device of claim 85 wherein said cup is provided with a sealed cover welded thereon by an attachment means forming a sealed cup unit containing said potable base liquid and said at least one sealed beverage preparation compartment needed to prepare a selected beverage drink.

87. (new) The portable beverage preparation device of claim 86 wherein said sealed cover is configured with at least two utility openings covered with removable small covers comprising:

at least a first opening for extracting said beverage drink from said cup unit; and

at least a second opening for processing said beverage drink.

88. (new) The portable beverage preparation device of claim 87 wherein said first opening provides for venting of said potable base liquid and for drinking therefrom.

89. (new) The portable beverage preparation device of claim 87 wherein said removable small covers are applied to said utility openings to seal any waste materials inside said cup after use.

90. (new) The portable beverage preparation device of claim 86 wherein said cup unit includes an inner cup nested in an outer cup, said inner cup spaced apart from said outer cup so as to define a chamber for holding liquid therebetween, and

wherein said outer cup is in communication with said chamber of said brewing element for receiving said potable base liquid that has passed therethrough.

91. (new) The portable beverage preparation device of claim 86 wherein said cup unit is provided with a predetermined volume of said potable base liquid and includes an inner lid and an outer cover, wherein both said inner lid and said outer cover are removable for insertion of a user-selected beverage preparation element.

92. (new) The portable beverage preparation device of claim 80 wherein said at least one beverage preparation element comprises at least one sealed compartment containing at least one beverage preparation selected from the group of edible materials including: coffee, tea, cocoa; dried fruits, dried vegetables; fruit juice, vegetable juice; milk and milk-substitute powders; syrups, sweeteners, flavorings; emulsions, solutions, extracts; dried herbs, medicines; liquid

concentrates, liquid condensates, and any combination selected from said group of edible materials.

93. (new) The portable beverage preparation device of claim 92 wherein said edible materials are in the form of dried, soluble edible substances.

94. (new) The portable beverage preparation device of claim 92 wherein said at least one beverage preparation is dispersed in said potable base liquid by a dispenser means.

95. (new) The portable beverage preparation device of claim 94 wherein said dispenser means comprises a hydraulic pump having a fixed arm and a moveable arm disposed within said drink container and said potable base liquid for effecting dispersion of said at least one beverage preparation confined within said at least one sealed compartment when pressure is applied by a user to the pressure point extremes of said fixed and moveable arms.

96. (new) The portable beverage preparation device of claim 94 wherein said dispenser means comprises water pressure.

97. (new) A portable beverage preparation device comprising:  
a drink container comprising:

    a sealed cover attached thereto configured with at least two utility openings fitted with removable covers;

    a predetermined volume of potable base liquid;

    at least one sealed compartment provided with at least one bore for confining a beverage preparation, wherein said potable base liquid and said at least one sealed compartment are in close proximity within said drink container and covered by said sealed cover;

a heating/cooling unit for heating/cooling said potable base liquid, said heating/cooling unit including a heating/cooling element;

at least one pump unit for pumping and circulating said potable base liquid; and

a controller and a power source for controlling and activating said at least one pump unit,

wherein said heating/cooling unit, said at least one pump unit, and said controller are disposed in a portable housing comprising a heating/cooling chamber, and

wherein when said at least one pump unit is connected to a power source and operated, said potable base liquid is circulated so as to be heated/cooled by said heating/cooling unit and mixed with said beverage preparation to provide a heated/cooled beverage in said drink container.

98. (new) The portable beverage preparation device of claim 97 further comprising:

a portable heating device configured to be attached to said drink container containing a potable base liquid for providing heating of a beverage drink on demand.

99. (new) The portable beverage preparation device of claim 98 wherein said portable heating device comprises a heating element, including heating coils, configured for direct insertion into said potable base liquid.

100. (new) The portable beverage preparation device of claim 98 wherein said portable heating device comprises a solid-state heat pump that utilizes the Peltier effect for either of heating and cooling said beverage drink.

101. (new) The portable beverage preparation device of claim 98 wherein said heating device further includes:

a holding chamber for accommodating at least a portion of said potable base liquid; at least one heat-activated valve for controlling the flow of said potable base liquid through said heating element;

a heater rod extending into said holding chamber; and  
a tube in communication with said holding chamber and said beverage preparation element,

wherein said heater element, when fitted within said holding chamber and activated, operates said heater rod to heat said at least a portion of said potable base liquid to at least boiling within said holding chamber, and

wherein said holding chamber retains said potable base liquid by activation of said at least one heat-activated valve to produce pressure in said holding chamber for pushing said heated potable base liquid through said tube.

102. (new) The portable beverage preparation device of claim 101 wherein said heat-activated valve includes a bimetal strip.

103. (new) A portable beverage preparation device comprising:

a heater unit for heating a potable base liquid, including a heating element; and

a brewing element, including at least one beverage preparation confined therein in at least one pocket thereof for admitting said potable base liquid therethrough.

104. (new) The portable beverage preparation device of claim 103 wherein said heating element is configured for fitting within a cup unit.

105. (new) The portable beverage preparation device of claim 103 wherein said heater unit comprises:

a switch for activating and deactivating said heating element;

a controller for controlling the operation of said heating element; and

a power unit for providing power to said heating element,

wherein said switch, said controller, and said power unit are in communication with one another and with a power source.

106. (new) A portable beverage preparation system comprising:

a cup unit including an inner cup and an outer cup, said inner cup spaced apart from said outer cup so as to define a chamber for holding a potable base liquid therebetween;

a heater unit for heating said potable base liquid; and  
a brewing element configured for fitting on said inner cup,

wherein said brewing element is configured with at least one pocket for holding at least one beverage preparation and configured for the passage of said potable base liquid therethrough, and including an outlet proximate to the periphery of said outer cup.

107. (new) The beverage preparation system of claim 106, wherein said outer cup is provided with external isolation ribs.

108. (new) The portable beverage preparation system of claim 106, wherein said outer cup envelopes said inner cup, being in communication with said pocket of said brewing element for receiving said potable base liquid that has passed therethrough.

109. (new) The beverage preparation system of claim 106, wherein said at least one beverage preparation is espresso.

110. (new) The beverage preparation system of claim 106, wherein said brewing element is removably insertable.

111. (new) The beverage preparation system of claim 106, wherein said brewing element is provided with a centrally disposed bore oriented axially within said brewing element.

112. (new) The beverage preparation system of claim 106, wherein said brewing element is provided with a bore axially offset with respect to the central axis of said brewing element.

113. (new) The beverage preparation system of claim 106, wherein said brewing element further comprises at least two concentric rings, for storage of at least two types of beverage preparations.

114. (new) The beverage preparation system of claim 106, wherein said brewing element has a spiral configuration, said liquid entering said spiral at an inner edge thereof and exiting at an outer edge thereof, said outer edge communicating with said second cup.

115. (new) The beverage preparation system of claim 114, wherein said spiral configuration has at least two beverage preparation areas arranged sequentially in the spiral, such that said potable base liquid enters said spiral at said inner edge and passes through said first beverage preparation area and continues to pass through said spiral through a second beverage preparation area and exits through said outer edge communicating with said second cup.

116. (new) The portable beverage preparation system of claim 106 wherein said heater unit comprises:

a switch for activating and deactivating said heating element;

a controller for controlling the operation of said heating element;

a heating element configured for fitting within said cup unit; and

a power unit for providing power to said heating element,

wherein said heating element, said switch, said controller, and said power unit are in communication with one another and with a power source via a plug.

117. (new) The portable beverage preparation system of claim 116 wherein said heating element includes:

a holding chamber for accommodating at least a portion of said potable base liquid;

at least one heat-activated valve for sealing said holding chamber to confine said at least a portion of said potable base liquid in said holding chamber;

a heater rod extending into said holding chamber; and

a tube in communication with said holding chamber and said beverage preparation element,

wherein said heating element, when fitted within said holding chamber and activated, operates said heater rod to heat said at least a portion of said potable base liquid to at least boiling temperature within said holding chamber, and

wherein said holding chamber retains said potable base liquid by activation of said at least one heat-activated valve to produce pressure in said holding chamber for pushing said heated potable base liquid through said tube and into said beverage preparation element.

118. (new) The portable beverage preparation system of claim 116 wherein said heating element further includes a heater coil and a sensor in communication with said heater coil, said sensor configured for detecting resistance in said heater coil for temperature sensing.

119. (new) The portable beverage preparation system of claim 116, wherein said controller is configured for controlling said heater rod by analyzing a rise in temperature versus time.

120. (new) The portable beverage preparation system of claim 116 wherein said controller shuts off power to said heater rod when any of the following conditions prevail:

a predetermined temperature is reached;  
an outlet is blocked;  
a used cup is detected; and  
said system lacks a predetermined volume of potable base liquid.

121. (new) The portable beverage preparation system of claim 116 wherein said plug is adapted for use in an automobile cigarette lighter socket.

122. (new) The portable beverage preparation system of claim 116 wherein said plug is adapted for use in a conventional electrical outlet.

123. (new) The beverage preparation system of claim 117, wherein said at least one heat-activated valve includes a vent for providing venting from said holding chamber.

124. (new) A method for preparing a beverage drink comprising:  
heating/cooling a potable base liquid; and

flushing at least one beverage preparation from at least one sealed chamber into said potable base liquid by one of pressure action and sprinkler means.

125. (new) The method for preparing a beverage drink as in claim 124 wherein said potable base liquid is treated water.

126. (new) A method for preparing a brewed beverage drink comprising:

- a) providing at least one beverage preparation;
- b) providing a brewing element, including a holding chamber for confining said at least one beverage preparation therein;
- c) continuously heating predetermined quantities of liquid to at least boiling; and
- d) pressurizing said heated liquid to force it into and out of said at least one beverage preparation confined within said holding chamber.

127. (new) The method for preparing a brewed beverage drink of claim 126, additionally comprising:

- e) repeating steps b, c, and d.